

## LITHOGRAPHIC APPARATUS AND DEVICE MANUFACTURING METHOD

### ABSTRACT OF THE DISCLOSURE

A lithographic apparatus and method in which a patterning system is used to impart to a projection beam a pattern in its cross-section. The beam is directed by a projection system from an illumination system onto a target portion of the surface of a substrate supported on a substrate support. The target portion has predetermined spatial characteristics relative to the substrate table that are appropriate for a desired exposure pattern on the surface of the substrate. The temperature of the substrate is measured, and the dimensional response of the substrate to the measured temperature is calculated. The spatial characteristics of the target portion relative to the substrate table are adjusted to compensate for the calculated dimensional response.

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